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APPLICANT: MITSUI COKES KOGYO KK;

INVENTOR: HIRATA KEIICHI;

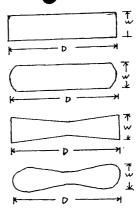
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TITI F

: PITCH-BASED CARBON FIBER AND

PRODUCTION THEREOF



ABSTRACT :

PURPOSE: To provide the titled carbon fiber having oblong circular contour of the cross-section, containing crystals oriented perpendicular to the outer circumference taking

a folded structure, free of cracks and having high fiber strength.

CONSTITUTION: The spinneret used in the present process has noncircular crosssection characterized by the nozzle flathess W/D of 1/1.5-1/10, preferably 1/2~1/6 wherein W is the length of minor side or minor diameter and D is the length of major side or major diameter. Mesophase pitch having a viscosity of 100~2,000 poise in the nozzle is spun in molten state keeping the extrusion pressure difference between both sides of the spinneret capillary to ≤1kg/cm² and the spun fiber is infusibilized, carbonated and, if necessary, graphitized to obtain the objective carbon fiber.

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